

| Hazards and Potential Activities | | |
|---|---|---|
| Risk | Pre-Disaster Activities | Mid and Post-Disaster Activities |
| Agricultural | Set up decontamination stations Public Information System | Disposal- Animal, Grain Containment- Animal, Grain Quarantine Embargo |
| Drought | Extend boat ramps Community Planning- source, storage Preventative Mode- Deeper wells, analyze aquifer, well affiance, plumbing codes, metering wells, identifying water competition and negotiating Land-use regulation- especially in high risk areas Improved drought prediction and forecasting Stimulation of rainfall by weather modification Resources conservation plans and practices Tests and exercises | Alternate water sources Reuse of waste water equipment Local water use ordinances System leak detection Upgrade irrigation systems to preserve water level Soil erosion controls Improved agricultural cultivation practices Regulated irrigation practices Water supply protection and conservation Emergency water purification and transport Energy conservation |
| Earthquake | Retro-fit buildings & Infrastructure Dam Inspection- Retro-fit Public Education Building Codes Pipeline Safety Improved delineation of seismic risk areas Earthquake-resistant new construction Land-use management Earthquake insurance Seismic risk disclosure in property transactions <i>Advanced earthquake prediction technology</i> Tests and exercises | Debris Reduction of associated hazards, with special attention to lifelines engineering and critical facilities |

| Hazards and Potential Activities | | |
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| | Hazards and Potential Activities | Hazards and Potential Activities |
| Flooding | <p>Flood Mapping Zoning Property Acquisition Pre-Flood Debris Removal Education Enforcement Land-use management and control, with special attention to floodplains <i>Building construction and codes</i> <i>Control and protective works (floodproofing, dams, reservoirs, levees, dikes, and drainage systems)</i> <i>Critical facility floodproofing</i> Preparedness, response, relief, and rehabilitation measures including effective warning capability Tests and exercises</p> | <p>Relocation- Insurance <i>Warning System</i> Bank Stabilization Demolition Federal flood insurance Rescue and lifesaving Evacuation routes and facilities</p> |
| Severe Winter Storms | <p>Hazardous Tree Removal Program Strengthen Power Structures Burying Cable/Power Lines Arbor Day Foundation- Urban Forest Guidelines Specific Equipment Prediction and warning systems Response plans specially adapted to such events Preparedness and increased readiness Tests and exercises</p> | <p>Ice Dusting Roads Message Boards Flexible scheduling of public events and activities <i>Alternate energy supply system to include emergency power for critical facilities</i> Mutual aid arrangements Rescue and lifesaving Energy conservation Emergency shelters Volunteer coordination</p> |

| Hazards and Potential Activities | | |
|----------------------------------|---|--|
| | Pre-disaster Activities | Mid and Post Disaster Activities |
| Risk | Lightening Detection Equipment All items listed under “Tornado” Mobile Home Shelters Safe rooms Building codes Mobile home tie-downs Tree-shelter belts Public information programs | Emergency Energy Generation in Critical Care or Critical Facilities Tub Grinders for Debris |
| Tornado | Early Warning Systems Wind-Proofing/Reinforcement <i>Building Codes</i> Tie Downs Hazardous Tree Removal Program Windproof Workshop & Pilot Projects Mobile home evacuation and anchoring requirements Storm spotter systems and organization | <i>Debris Removal/Disposal Plan</i> Volunteer coordination <i>Warning systems to include indoor and outdoor warning</i> <i>In-house shelters</i> <i>Public shelters for congested areas</i> |
| Terrorism | Planning, Mobilization, Training, Exercise Equipment- Detection & Communication Operations Center Security Doors- Courthouses Surveillance Equipment Critical Asset Identification- Bridges, Power Grid System, Government Buildings, Public Utilities Early Warning- Record Keeping, Tracking & Monitoring Record, Commercial Transportation, Record Keeping- Hazmat Carriers Secure Facilities- Storage of BNICE Public Information | |

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| Wildfires | Timber Thinning Around Facilities Upgrade Wildfire Equipment Recruitment Training Increase Work with Railroads Public Burning Education Asphalt shingles rather than wood Proper vegetative planting | Zoning/Building Codes |
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STATE MITIGATION GOALS

Goal #1

Reduce or Eliminate Long Term Risk to Human Life

| Objective | Implementing Steps | Responsible Agency | Priority | Timeline |
|---|--|--------------------|----------|----------|
| 1.1- Promote and support the development of wind shelters in areas highly vulnerable to wind damages to protect inhabitants | 1.1.1- Encourage the use of Hazard Mitigation funds for these projects | NEMA NWS | High | |
| | 1.1.2 Public Awareness campaign | NEMA NWS | Meduim | |
| 1.2- Promote and support projects that protect or exclude human habitation in flood zones. | 1.2.1- Encourage enforcement of existing zoning by each local emergency manager | NDNR NEMA | High | |
| | 1.2.2- Pursue acquisition projects that remove homes from dangerous flood zones. | NDNR NEMA | Hlgh | |

STATE MITIGATION GOALS

Goal #1 continued

Reduce or Eliminate Long Term Risk to Human Life

| | | | | |
|--|--|---|--------|--|
| 1.3- Promote and support projects that protect employees, occupants, patients, and students in State owned buildings | 1.3.1- Increase mitigation plans in State buildings | NEMA HHSS University of Nebraska System | Low | |
| | 1.3.2- Target students and patients during severe weather campaigns three times a year | NEMA HHSS University of Nebraska System | Meduim | |
| 1.4- Improve public warning system | 1.4.1- NOAA weather radio transmitters and radios | NEMA | High | |
| | 1.4.2- Pursue warning system procedures in State parks and buildings | NGPC | Meduim | |
| | 1.4.3- Sirens as part of a complete system | NEMA USDA Rural Development Program | Low | |

| STATE MITIGATION GOALS | | | | |
|--|---|--------------------------------|--------|--|
| Goal #1 Continued | | | | |
| Reduce or Eliminate Long Term Risk to Human Life | | | | |
| 1.5- Reduction or elimination of Power outages | 1.5.1 Erection of storm structures | Nebraska Public Power District | High | |
| | 1.5.2 Redundant Fiber Optic Switching equipment | Nebraska Public Power District | High | |
| | 1.5.3 Mobile transformer and generator | Nebraska Public Power District | Medium | |
| | 1.5.4 Communication, System control, and data center backup systems | Nebraska Public Power District | High | |
| | 1.5.5 Single point crossing structure replacement | Nebraska Public Power District | High | |
| | 1.5.6 Double circuit replacement | Nebraska Public Power District | High | |
| | 1.5.7 Drought Recovery Strategy for Power Plant Cooling Systems | Nebraska Public Power District | Medium | |
| | 1.5.8 Chemical Spill Exposure | Nebraska Public Power District | Low | |

| Goal #2 Reduce or Eliminate Long Term Risk to Property/Environment | | | | |
|---|--|---------------------------|-----------------|-----------------|
| Objectives | Implementation Steps | Responsible Agency | Priority | Timeline |
| 2.1 Continue actions of CARC subcommittee | See CARC objectives and implantation steps below | | | |
| 2.2 Flood Mitigation | 2.2.1 Unmet Mapping Needs | NDNR FEMA | High | 2.2.1 Mid 2008 |
| | 2.2.2 Update and keep current Nebraska Repetitive Loss Information | NDNR FEMA NEMA | High | 2.2.2 Ongoing |
| | 2.2.3 Coordination with Dept of Roads to determine roadway projects which could also contain a flood reduction component | DOR NEMA | Medium | 2.2.3 Ongoing |
| | 2.2.4 Community Outreach | NDNR FEMA NEMA | Medium | 2.2.4 Ongoing |
| 2.3 Transportation Infrastructure | TBD will be included in future revisions | | | |
| 2.4 Provide counties/communities with information on repetitive loss areas | 2.4.1 Annual letters to Communities | NDNR | Low | Ongoing |
| | 2.4.2 All hazard Planning efforts | NEMA NDNR | High | Ongoing |

| Goal #3 Promote Public Awareness of Hazards and Response | | | | |
|---|---|-----------------------------|-----------------|-----------------|
| Objectives | Implementing Steps | Responsible Agencies | Priority | Timeline |
| 3.1- Summer severe storms | 3.1.1- Health Concerns- Heat and Asthma awareness program | NEMA DNR CARC HHSS | Medium | May 2005 |
| | 3.1.2- Water conservation awareness programs | CARC HHSS | High | Ongoing |
| 3.2 Winter severe storms | 3.2.1- Winter Storm awareness campaign | NWS NEMA | Low | Ongoing |
| | 3.2.2- Home/Car Kits brochures and public awareness | NWS NEMA | Low | Ongoing |
| | 3.2.3- Health Concerns public awareness | NEMA HHSS | Low | Ongoing |
| 3.3- Spring severe storms | 3.3.1- School awareness programs | NEMA NWS | Medium | Ongoing |
| | 3.3.2 Home mitigation actions public information | NEMA FEMA | Medium | Ongoing |
| | 3.3.3 Wind shelter / Safe Room awareness | NEMA FEMA | Medium | Ongoing |
| | 3.3.4 Flash Flood public awareness | NEMA NEW NDNR | Medium | Ongoing |
| | 3.3.5 NOAA Weather AlerRadio campaign | NEMA NWS | High | Ongoing |

Nebraska Risk Assessment Committee
Nebraska Municipal Water Supply, Health, and Energy Subcommittee
Planned Mitigation Activities
(These are identified as **HIGH** Priority Items)

| Prioritized Impacts | Prioritized Planned Actions | Assistance Agencies |
|--|---|--|
| 1. Due to drought, many public water supply systems experience potable water demand problems. | 1.1 Emphasize and evaluate long and short-term drought contingency plans for all systems. 1.2 Emphasize indoor and outdoor water conservation measures. 1.3 Maintain list of “problem systems” with history or potential for drought-related problems. 1.4 Develop programs and educate the public on the potential uses of wastewater. 1.5 Develop partnerships with utility companies and others who can help distribute drought-related information. | NHHS, League of Municipalities, NRDs, Nebraska Rural Water Association, NDEQ, AWWA, CED/UNL. |
| 2. Many rural water districts and small public water systems (under 10,000 population) develop operational (mechanical) problems when operating for extended periods of drought. | 1.1 Maintain list of “problem systems” with a history or potential for drought-related problems 1.2 Continue work with systems to develop a plan of long-term drought mitigation and short-term drought response actions. 1.3 Maintain communication means and use NeRWA newsletter and training sessions to address drought-related issues. 1.4 Explore, as needed, emergency funds | NRWD, NEMA, Nebraska Section of AWWA, Nebraska Department of Economic Development (NDED), USDA Rural Development, League of Assistance program, NDEQ, UNL Extension, NRDs, Groundwater Foundation, Nebraska Department of Natural Resources, (NeRWA), EPA. |
| 3. Due to drought, private wells experience water quality and quantity problems | 3.1 Encourage NRDs to evaluate situation 3.2 Emphasize indoor and outdoor water conservation measures | NRDs, CSD/UNL, CED/UNL |
| 4. Increased irrigation may overdraft available aquifer and affect municipal and rural water supplies during drought | 3.1 Promote groundwater-metering efforts and establish an emergency allocation program 3.2 Encourage Statewide water level measurement program to effectively monitor aquifer levels. | NRDs, Bureau of Reclamation, DOE, CSD/UNL, CED/UNL, USGS |

Assistance Agency Abbreviations and Acronyms

| | | | |
|---------|---|-------|---------------------------------------|
| AWWA | American Water Works Association | NEDA | Nebraska Department of Agriculture |
| CED/UNL | Cooperative Extension Division- University of Nebraska-Lincoln | NEMA | Nebraska Emergency Management Agency |
| CSD/UNL | Conservation and Survey Division- University of Nebraska-Lincoln | NHHS | Nebraska Health and Human Services |
| DOE | Department of Energy | NRCS | Natural Resource Conservation Service |
| EPA | Environmental Protection Agency | NRDs | Natural Resources Districts |
| HUD | Housing and Urban Development | NeRWD | Nebraska Rural Water Districts |
| NDED | Nebraska Department of Economic Development | UNMC | University of Nebraska Medical Center |
| NDEQ | Nebraska Department of Environmental Quality | USGS | United State Geological Survey |
| HHSS | Nebraska Health and Human Services System | | |

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